

To: Matt Francis[m.francis@erllc.com]
From: Way, Steven
Sent: Fri 8/29/2014 4:46:56 PM
Subject: RE: Gold King - I beams

Correct the parallel, one on each side placement, would not contact water. The rock may be sulfide rich, and it would be easier to set the I-beams on finer grained material.

Steven Way
Federal On-Scene Coordinator
Emergency Response Unit
US EPA - Region 8
1595 Wynkoop Street
Denver, CO 80202

Office: 303-312-6723

-----Original Message-----

From: Matt Francis [mailto:m.francis@erllc.com]
Sent: Friday, August 29, 2014 10:42 AM
To: Way, Steven
Subject: RE: Gold King - I beams

If the beams are parallel and we can trench, is it an issue?

Sent via the Samsung Galaxy Note® 3, an AT&T 4G LTE smartphone

----- Original message -----

From: "Way, Steven"
Date: 08/29/2014 10:36 AM (GMT-07:00)
To: Matt Francis
Subject: RE: Gold King - I beams

Matt,

Let's see if this is even what they want to do. The other option to project the steel is to put in some clean bedding material.

-----Original Message-----

From: Matt Francis [mailto:m.francis@erllc.com]
Sent: Friday, August 29, 2014 10:29 AM
To: Way, Steven
Subject: Fwd: Gold King

Sent via the Samsung Galaxy Note(r) 3, an AT&T 4G LTE smartphone

----- Original message -----

From: Bob Heeter

Date:08/29/2014 10:18 AM (GMT-07:00)
To: Matt Francis
Subject: RE: Gold King

I'll do some checking on some coatings, the steel sets would have to be sand blasted prior to any coating being applied.

-----Original Message-----

From: Matt Francis [mailto:m.francis@erllc.com]
Sent: Friday, August 29, 2014 10:15 AM
To: Bob Heeter
Cc: Chris Hassel
Subject: RE: Gold King

Any kind of spray on coating you are aware of?

Sent via the Samsung Galaxy Note(r) 3, an AT&T 4G LTE smartphone

----- Original message -----

From: Bob Heeter
Date:08/29/2014 10:13 AM (GMT-07:00)
To: Matt Francis
Cc: Chris Hassel
Subject: RE: Gold King

Matt, the beams would run parallel to the tunnel and they will be anchored to the sill with 4' dywidag bolts on about 4' centers adding the rigidity of the individual sets and steel set structure as a whole. As far as the pH of the water, sizing of the grade beam would increase life to an extent, however the steel sets are a different matter they are what they are unless we what to change them to a different material. What is the life expectancy of the adit. Thanks in advance for the mine rescue info.

Thanks
Bob

-----Original Message-----

From: Matt Francis [mailto:m.francis@erllc.com]
Sent: Friday, August 29, 2014 9:55 AM
To: Bob Heeter
Cc: Chris Hassel
Subject: RE: Gold King

EPA likes the grade beam idea provided they can go parallel to the bottom rather than crossing from side to side. The reason for that is if they cross we will have to figure out a way to pipe the water across them. I understand crossing would add rigidity but the water is an issue. We tested the pH of the water after you left and found it is 2.65. Obviously that presents an unexpected curveball for both steel and concrete. Any suggestions?

EPA has contacted San Juan Mine rescue and I have thier call list I can forward you.

I'll talk with them about dumping over the edge. Not sure why they've indicated they want it accumulated on top.

Thanks for coming down yesterday. Truly appreciated.
Matt

